



Wuhan Xinru Chemical Industry Co., Ltd

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MATERIAL SAFETY DATA SHEET

Product Identification

【Product Name】

5-Methoxy-2-[(4-methoxy-3,5-dimethyl-pyridin-2-yl)methylsulfinyl]-3H-benzimidazole

【Synonyms】

1H-Benzimidazole, 5-methoxy-2-[[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-
Gastrozole
lcometion
Prilosec
Roweprazol
Sanamidol

【CAS】 73590-58-6

【Formula】 C₁₇H₁₉N₃O₃S

【Molecular Weight】 345.42

【RTECS】 DD9087000

【RTECS Class】 Drug; Mutagen; Reproductive Effector; Human Data

【Merck】 12,6977

【Beilstein/Gmelin】 3628192

Physical and Chemical Properties

【Appearance】 Crystals from acetonitrile.

【Solubility in water】 Slightly soluble

【Melting Point】 144 - 146

【Density】 1.329 g/cm³

【pKa/pKb】 4.92 (pKb)



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【Partition Coefficient】 2.38

【Usage】 Medication.

First Aid Measures

【Ingestion】

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

【Inhalation】

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

【Skin】

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

【Eyes】

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Handling and Storage

【Storage】

Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

【Handling】

All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

Hazards Identification

【Skin】

Lichen spinulosis and exfoliative dermatitis have been associated with omeprazole therapy.



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Exposure Controls/Personal Protection

【Personal Protection】

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Wear chemical resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

【Respirators】

Use NIOSH/MSHA approved respirator appropriate for exposure of concern.

【Exposure Effects】

Confusion, somnolence, headache, dizziness and blurred vision have been reported with therapeutic use and may follow overdoses of omeprazole. No embryonic, teratogenic, or fetotoxic effects have been seen in animals tested.
Omeprazole has been shown to cross the placenta in animals and humans.

Fire Fighting Measures

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use agent most appropriate to extinguish fire.

Accidental Release Measures

【Small spills/leaks】

Evacuate area and ventilate. Wear protective equipment. If required, use an inert absorbent. Sweep up and place in an appropriate container for disposal. Wash contaminated surfaces.

Stability and Reactivity

【Stability】 No data.

【Incompatibilities】 Strong oxidizing agents.

【Stability】 No data.